



Clinical Allergy and Immunology

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Mast Cell Proteases in Immunology and Biology

edited by
George H. Caughey

Mast Cell Proteases In Immunology And Biology

Daniel L. Purich, R. Donald Allison



Mast Cell Proteases In Immunology And Biology:

Mast Cell Proteases in Immunology and Biology Caughey,1995-05-11 This state of the art reference provides timely and clinically and experimentally useful information on the major proteins of mast cell secretory granules that are released into the lung skin gut eye and other tissues under the influence of diverse stimuli including cytokines growth factors neuropeptides and allergen bound immunoglobulin E Demonstrates the important roles proteases play in the maintenance of tissue homeostasis as well as in the damaging events linked with allergy and other varieties of inflammation *Molecular Biology of Mast Cell Proteases, and Additional Studies in Immunology* Dale Stuart Reynolds,Harvard University--MIT Division of Health Sciences and Technology,1992 Handbook of Proteolytic Enzymes, Volume 1 Alan J. Barrett,J. Fred Woessner,Neil D. Rawlings,2012-12-02 Handbook of Proteolytic Enzymes Second Edition Volume 1 Aspartic and Metallo Peptidases is a compilation of numerous progressive research studies on proteolytic enzymes This edition is organized into two main sections encompassing 328 chapters This handbook is organized around a system for the classification of peptidases which is a hierarchical one built on the concepts of catalytic type clan family and peptidase The concept of catalytic type of a peptidase depends upon the chemical nature of the groups responsible for catalysis The recognized catalytic types are aspartic cysteine metallo serine threonine and the unclassified enzymes while clans and families are groups of homologous peptidases Homology at the level of a family of peptidases is shown by statistically significant relationship in amino acid sequence to a representative member called the type example or to another member of the family that has already been shown to be related to the type example Each chapter discusses the history activity specificity structural chemistry preparation and biological aspects of the enzyme This book will prove useful to enzyme chemists and researchers

Mast Cells and Basophils Gianni Marone,Lawrence M. Lichtenstein,Federica J. Galli,2000-05-25 Mast Cells and Basophils will be essential reading for immunologists biochemists and medical researchers Detailed chapters cover all aspects of mast cell and basophil research from cell development proteases histamine cysteinyl leukotrienes physiology and pathology to the role of these cells in health and disease Chapters also discuss the clinical implications of histamine receptor antagonists Handbook of Proteolytic Enzymes Alan J. Barrett,Neil D. Rawlings,J. Fred Woessner,2012-10-30 Extensively revised and updated the new edition of the highly regarded Handbook of Proteolytic Enzymes is an essential reference for biochemists biotechnologists and molecular biologists Edited by world renowned experts in the field this comprehensive work provides detailed information on all known proteolytic enzymes to date This two volume set unveils new developments on proteolytic enzymes which are being investigated in pharmaceutical research for such diseases as HIV Hepatitis C and the common cold Volume I covers aspartic and metallo peptidases while Volume II examines peptidases of cysteine serine threonine and unknown catalytic type A CD ROM accompanies the book containing fully searchable text specialised scissile bond searches 3 D color structures and much more The only comprehensive book on proteolytic enzymes

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Advances in Immunology a long established and highly respected publication presents current developments as well as comprehensive reviews in immunology Articles address the wide range of topics that comprise immunology including molecular and cellular activation mechanisms phylogeny and molecular evolution and clinical modalities Edited and authored by the foremost scientists in the field each volume provides up to date information and directions for the future Contributions from leading authorities Informs and updates on all the latest developments in the field *Immunological Investigations*, 1995 **Immune Response and the Eye** J. Wayne Streilein, 1999-01-01 In this book the physiologic bases of ocular immune privilege and the distinctive systemic immune responses elicited by eye derived antigens are described Several chapters discuss the pathogenesis of these disorders which arise from infections autoimmunity and neoplasms Finally chapters devoted to corneal and retinal transplantation describe attempts to exploit ocular immune privilege to promote graft survival and thereby cure blindness Ophthalmologists both clinicians and physician scientists general and tumor immunologists transplantation biologists and anyone seeking to understand the immunopathogenic diseases that threaten vision will appreciate the information presented in this book **Signal Transduction in Mast Cells and Basophils** Ehud Razin, Juan Rivera, 2012-12-06 Mast cells and basophils are responsible for inflammatory and allergic reactions As such the signals that generate these responses and how their pathways of action work are the focus of much present day research into allergy and inflammation This book focuses primarily on the molecular mechanisms that govern mast cell and basophil cell biology and function as well as providing a comprehensive summary of the field of signal transduction and also giving insights into areas that have therapeutic potential The book provides detailed insights into mast cell and basophil growth and development their activation by allergens including details of receptor activation and downstream events and the regulators of morphology and degranulation The metabolic pathways involved in prostaglandin and leukotriene production are discussed as is the role of transcription factors in mast cell growth and cytokine production Written by leaders in the field this volume will provide the reader with an up to date account of a topic where the rapid progress makes conventional information gathering difficult *Inflammatory Mechanisms in Asthma* Stephen Holgate, 2018-12-07 This timely volume brings together the latest basic and clinical insights on the cellular and mediator mechanisms involved in the induction and persistence of airway dysfunction of asthma by over 90 experts in the field paving the way for developing novel and more effective antiinflammatory therapeutic agents and strategies Furnishing a comprehensive and up to date view of the

expanding and interrelated components underlying asthma pathogenesis *Inflammatory Mechanisms in Asthma* describes how evidence on airway inflammation is obtained with invasive and noninvasive procedures such as bronchoalveolar lavage and sputum analysis reviews the complex interactions of inflammatory cells that contribute to chronic inflammation and bronchial hyperreactivity including eosinophils basophils neutrophils fibroblasts epithelial cells and macrophages considers mast cells cytokines neural factors leukotrienes kinins and other mediators that regulate the development establishment or resolution of asthma exacerbations presents new information suggesting that airway changes in asthma can lead to remodeling or airway fibrosis and more Enhanced with over 4700 references tables drawings and photographs this compelling investigation into the pathophysiology of asthma is an indispensable resource for pulmonologists physiologists immunologists allergists epidemiologists biochemists molecular biologists and graduate and medical school students in these disciplines Mast Cell Disorders, An Issue of Immunology and Allergy Clinics of North America, E-Book Cem Akin, 2023-09-30 In this issue of Immunology quality of life in mastocytosis effect of gender and special considerations for women in mastocytosis and anaphylaxis management of mediator symptoms allergy and anaphylaxis in mastocytosis and more Provides in depth clinical reviews on mast cell disorders offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews Therapeutic Targets in Airway Inflammation N. Tony Eissa, David P. Huston, 2003-05-13 This reference examines the cellular molecular and genetic mechanisms involved in airway inflammation as well as the pathophysiology epidemiology and aetiology of asthma It explores strategies to prevent cellular injury and oxidative tissue damage inhibit key inflammatory pathways and identify disease specific targets to reduce the induction *Cardiomyopathies and Heart Failure* Akira Matsumori, 2003-07-31 This volume comprises the most up to date account of existing knowledge on the subject of cardiomyopathy and heart failure Its multidisciplinary approach covers cardiovascular medicine biochemistry immunology molecular biology virology epidemiology and clinical medicine *Cardiomyopathies and Heart Failure* Covers all major investigational and clinical aspects of the topic Provides syntheses as well as reviews Offers a unique multidisciplinary and international perspective Includes an extensive list of references to relevant work Targeted towards practicing physicians and basic researchers **The Enzyme Reference** Daniel L. Purich, R. Donald Allison, 2003-01-04 The aim of this work is to provide a fuller spectrum of information in a single source on enzyme catalyzed reactions than is currently available in any published reference work or as part of any Internet database *The Enzyme Reference A Comprehensive Guidebook to Enzyme Nomenclature Reactions and Methods* includes 20 000 review articles and seminal research papers Additionally it provides a novel treatment of so called ATPase and GTPase reactions to account for the noncovalent substratelike and productlike states of molecular motors elongation factors transporters DNA helicases G regulatory proteins and other energases Includes a compendium of over 6 000 enzyme reactions including enzyme

commission numbers alternative names substrates products alternative substrates and properties Covers over 900 chemical structures of key metabolites and cofactors Index directs readers to the exact pages for over 9 500 enzyme names *Journal of Investigational Allergology & Clinical Immunology* ,1996 **Asthma and COPD** Peter J. Barnes,Jeffrey M.

Drazen,Stephen I. Rennard,Neil C. Thomson,2002-04-22 Chronic obstructive pulmonary disease COPD which encompasses both chronic bronchitis and emphysema is one of the most common respiratory conditions of adults in the developed world Asthma and COPD Basic Mechanisms and Clinical Management provides a unique authoritative comparison of asthma and COPD Written and edited by the world s leading experts it is a comprehensive review of the most recent understanding of the basic mechanisms of both conditions specifically comparing their etiology pathogenesis and treatments Highlights distinguishing features between asthma and COPD Reviews benefits and limitations of current therapies Summarises key information in two colour artwork Extensively referenced to primary literature **The Biology of Nematodes** Donald L

Lee,2002-01-10 The Biology of Nematodes synthesizes literature on free living plant parasitic and animal parasitic nematodes Topics covered include systematics and phylogeny neuromuscular physiology locomotion sense organs behavior aging the nematode genome survival strategies immunology structure and organization gametes and fertilization and feeding and metabolism This volume the most authoritative available includes contributions from researchers working on groundbreaking molecular techniques leading to new approaches in the study of nematode worms It provides an important resource for research scientists working in a number of agricultural medical and biological fields **Atopic Dermatitis** Thomas

Bieber,Donald Y. M. Leung,2002-04-23 This reference explores the epidemiology etiology management and pathophysiological mechanisms of atopic dermatitis and identifies potential genetic and environmental factors associated with allergic skin immune responses compiling the latest research diagnostic procedures and therapeutic strategies for the prevention control and treatment o **Anaphylaxis and Hypersensitivity Reactions** Mariana C. Castells,2010-12-09

Despite wide recognition as a serious public health problem anaphylaxis and hypersensitivity reactions remain under recognized and under diagnosed This book fills the gaps in our understanding of the identification of triggers recognition of clinical presentations understanding of the natural history of these reactions and selection of treatment strategies including those focused on cellular and molecular targets The book provides a detailed examination of disease etiology pathogenesis and pathophysiology and their correlation to clinical practice Forefront knowledge of the mediators and mechanisms of anaphylaxis is covered with an emphasis on how new discoveries shape our current and emerging therapies

Inflammatory Mechanisms in Allergic Diseases Burton Zweiman,Lawrence B. Schwartz,2023-01-06 Contains patterns of allergic reactivity for disorders such as asthma atopic dermatitis urticaria and anaphylaxis Written by leading experts in the field Inflammatory Mechanisms in Allergic Diseases covers non anaphylactic drug disorders synthesis and formation of IgE antibodies new treatments using allergenic peptides immunostimulatory oligonucleotides and

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